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ATE FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
003 Stanisłav K. Kim	006691-0304704	8888		
07/25/2005	EXAM	EXAMINER		
PILLSBURY WINTHROP SHAW PITTMAN, LLP				
		PAPER NUMBER		
MCLEAN, VA 22102				
	3725	-		
	003 Stanislav K. Kim 07/25/2005	003 Stanisłav K. Kim 006691-0304704 07/25/2005 EXAM P SHAW PITTMAN, LLP SUHOL, I		

DATE MAILED: 07/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)			
Office Action Occurrence	Office Action Summer	10/615,83	30	KIM ET AL.			
	Office Action Summary	Examiner		Art Unit			
	Dmitry Su		3725				
 Period for	The MAILING DATE of this commun Reply	ication appears on the	cover sheet with the	o correspondence addre	ess		
THE M - Extens after S - If the p - If NO p - Failure Any re	PRTENED STATUTORY PERIOD F IAILING DATE OF THIS COMMUN ions of time may be available under the provisions IX (6) MONTHS from the mailing date of this comn eriod for reply specified above, the maximum st to reply within the set or extended period for reply ply received by the Office later than three months a patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no evenunication. io) days, a reply within the state attractory period will apply and will will, by statute, cause the apply will, by statute.	ent, however, may a reply be utory minimum of thirty (30) d ill expire SIX (6) MONTHS fro lication to become ABANDON	timely filed ays will be considered timely. om the mailing date of this comm NED (35 U.S.C. § 133).	nunication.		
Status							
1)∏ F	Responsive to communication(s) file	ed on					
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3)□ \$	<u> </u>						
Dispositio	n of Claims			•			
5)□ (6)□ (7)⊠ (Claim(s) <u>1-10</u> is/are pending in the a a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>1,2,5-7 and 10</u> is/are reject Claim(s) <u>3,4,8 and 9</u> is/are objected Claim(s) are subject to restrict	re withdrawn from coned.					
Applicatio	n Papers						
9)∐ T	he specification is objected to by the	e Examiner.					
10)□ T	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
A	Applicant may not request that any object	ction to the drawing(s) b	e held in abeyance. S	ee 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ur	nder 35 U.S.C. § 119						
a)⊠ 1 2 3	cknowledgment is made of a claim All b) Some * c) None of: Certified copies of the priority Copies of the certified copies of the priority application from the Internation the attached detailed Office action	documents have bee documents have bee of the priority docume nal Bureau (PCT Rule	n received. n received in Applica ents have been receive e 17.2(a)).	ation No ved in this National Sta	age		
Attachment(s	s)						
1) Notice	of References Cited (PTO-892)		4) Interview Summar				
3) 🛛 Informa	of Draftsperson's Patent Drawing Review (Pation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date 7/25/03, 10/29/03.		Paper No(s)/Mail II 5) Notice of Informal 6) Other:	Date Patent Application (PTO-15	2)		

DETAILED ACTION

Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 5-7 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamamoto et al (JP 06047405). Yamamoto discloses an electric type rolling device which teaches all of the claimed elements including, with respect to claim 1, a pair of work rolls (figure 3B, rolls 2 and 5), a power supply for generating a current (power supply 8), a first and second conductive electrode means (rollers 94 and 95) connected to the power supply (8) where the first electrode means is disposed in a location before the work rolls while the second electrode means is disposed in a location after the work rolls (figure 3B).

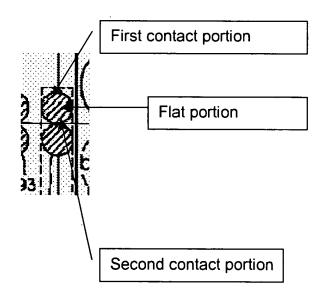
Regarding claims 2 and 7, the two contact portions are read onto the upper and lower contact portion of rollers 94 and 95 shown in figure 3B as they will both contact the metal strip during processing thereof while the flat portion is read onto the roller portion that lies between the upper and lower roller contact portion and extends toward the work rolls (see figure below).

Regarding claims 5 and 10, the conductive electrode means being a pair of electrode rolls disposed above and below the metal strip are shown in figure 3B.

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Should Yamamoto later be deemed not to meet claims 1-2, 5-7 and 10 because Yamamoto fails to disclose the use of pulsating current, it would have been obvious to one having ordinary skill in the art at the time of the claimed invention to have utilized pulsating current with the electric heat of Yamamoto since Weldon et al '705 discloses that it is known to provide pulsating electric current to metal deformation devices/processes (including rolling, see col. 3, lines 54+) for the purpose of making it possible to minimize the time the device and workpiece are at an elevated temperature.



Allowable Subject Matter

Claims 3-4 and 8-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dmitry Suhol whose telephone number is 571-272-4430. The examiner can normally be reached on Mon - Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on (571) 272-4419. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dmitry Suhol Examiner Art Unit 3725

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